

## NOTES ON MEXICAN BUTTERFLIES, III, DANAIDÆ

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## Danainæ

124. *Anosia berenice* Cramer.

G. &amp; S. (1), 1: 3; 2: 638.

Ha. (2), p. 114, pl. 31a.

Ho. (5), p. 662.

Hda. Vista Hermosa, Villa Santiago, Nuevo Leon, 1500 ft., 4 ♂♂ 1 ♀ vi. 16-18. 40 (H.H.).

Galeana, Nuevo Leon, 6500 ft., 2 ♂♂ 2 ♀♀ vii.29-viii.1.39 (H.H.).

nr. Villagran, Tamaulipas, 1160 ft., 1 ♀ iv.28.41 (R.P.).

Hda. Sta. Engracia, Tamaulipas, 1 ♀ vii.27.39 (H.H.).

60 mi. So. of Victoria, Tamaulipas, 1 ♂ vii.5.36 (H.D.T.).

Jacala, Hidalgo, 4500 ft., 4 ♂♂ 6 ♀♀ vi.25-vii.3.39 (H.H.).

El Sol, Tamazunchale, Sau Luis Potosi, 400 ft., 2 ♀♀ v.28-29.41 (R.P.).

El Pujal, San Luis Potosi, 100 ft., 1 ♂ vii.20.39 (H.H.).

nr. Chilpancingo, Guerrero, 1 ♀ vi.26.41 (R.P.).

El Sabino, nr. Uruapan, Michoacan, 5 ♂♂ 1 ♀ vii.16-30.36 (H.D.T.).

Chichen Itza, Yucatan, 1 ♂ viii.30.36 (H.D.T.).

All this material is probably referable to race *strigosa* Bates. A few of the specimens (Villagran, Galeana, Jacala) have the greyish scales along the nervules of the upper side of the hind wings so reduced in number as to be difficult to see. There is some difference in ground color which I am inclined to believe is related to the freshness of the specimens. Those that are freshly emerged are brighter fulvous than those that have flown for some time which are rather dull dilute reddish brown. There is considerable variation in the development of the white spots in the dark margin of the hind wings. In two cases (a Jacala ♀ and an El Sol ♀) these spots are absent, in all of the others the outer row

is at least indicated and in some the second row is almost complete. The baso-apical radius of the fore wing varies from 31 to 47 mm. in the males and from 29 to 44 mm. among the females. There may be a tendency for the more northern specimens to be brighter and larger, and more clearly *strigosa*.

125. *Anosia cleothera* Godart.

G. & S., 1: 3; 2: 638.

Ha., p. 114, pl. 31b.

Ho., p. 663.

Galeana, Nuevo Leon, 6500 ft., 1 ♂ viii.1.39 (H.H.).

60 mi. So. of Victoria, Tamaulipas, 1 ♂ vii.6.36 (H.D.T.).

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 1 ♀ v.29.41 (R.P.).

Orizaba, Vera Cruz, 2000 ft., 1 ♀ v.6.41 (R.P.).

Rio Blanco, Vera Cruz, 2200 ft., 1 ♂ v.10.41 (R.P.).

The Galeana record is rather far north for this species; however, it has been taken in Texas. In McDunnough's check list it is termed *eresimus* Cramer. I am not sure that *cleothera* is really valid for the Central American material, it was described from "Timor" (!) and the original description does not apply too well to our material. Cramer's species from the Guianas fits it no better so until a specialist settles the question it is best to let *cleothera* stand.

126. *Danaus plexippus* Linnæus.

G. & S., 1: 1; 2: 638.

Ha., p. 113 (as *archippus* F.), Vol. 1, pl. 28c.

Ho., p. 663 (as *curassavica* F.).

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 1 ♀ v.29.41 (R.P.).

Tancitaro, Michoacan, 6600 ft., 1 ♂ 2 ♀♀ vii.30-viii.11.40 (H.H.).

The El Sol specimen and one of the Tancitaro females are f. *fumosa* Hulst. Hoffmann lists this species as *Diogas curassavica* Fabricius. Apparently he overlooked Riley's paper (Tr. Ent. Soc. Lond., 76: 451. 1929) which definitely linked the Linnean name with our "Monarch."

## Ithomiinæ

My specimens of this subfamily were determined by R. M. Fox, of the Reading Public Museum. These represent six species of which Fox says, "All are common members of the Mexican tropical fauna." All of them were collected by Robert Potts. Of these six species five are among the twenty-eight Ithomiinæ in Hoffmann's list. The other has probably been confused by Hoffmann with *Ithomia patilla* Hewitson. I am following Hoffmann's order in this listing.

139. *Dircenna klugii* Hübner.

G. & S., 1: 28; 2: 644.

Ha., p. 138, pl. 36e.

Ho., p. 664.

Tuxpango, Vera Cruz, 1500 ft., 1 ♂ v.8.41.

Fortin, Vera Cruz, 1600 ft., 1 ♀ v.3-4.41.

Orizaba, Vera Cruz, 2000 ft., 1 ♀ v.6.41.

141A. *Ithomia hippocrenis* Bates.

G. & S., 1: 51, pl. 5, f. 5.

Ha., p. 142.

Ho., p. 665 (*I. patilla* in part).

Ojo de Agua, Vera Cruz, 1600 ft., 3 ♂♂ 3 ♀♀ v.12.41.

A pair of these are deposited at the Reading Public Museum. This species is not listed by Hoffmann.

145. *Oleria paula* Weymer.

G. & S., 2: 645 (*L. victoria* 1: 38 in part).

Ha., p. 150.

Ho., p. 665.

Ojo de Agua, Vera Cruz, 1600 ft., 1 ♂ 1 ♀ v.12.41.

Hoffmann *et al.* use the genus *Leucothryis* for this species.

149. *Pteronymia cotytto* Guérin.

G. & S., 1: 44; 2: 647.

Ha., p. 155, pl. 40c.

Ho., p. 665.

El Sol, Tamazunchale, San Luis Potosí, 400 ft., 3 ♀♀  
v.28-29.41.

Tuxpango, Vera Cruz, 1500 ft., 1 ♀ v.8.41.

Ojo de Agua, Vera Cruz, 1600 ft., 1 ♂ 2 ♀♀ v.12.41.

A female from El Sol and one from Ojo de Agua are deposited at the Reading Public Museum.

153. *Greta oto*, Hewitson.

G. & S., 1: 56; 2: 648.

Ha., p. 164, pl. 41e.

Ho., p. 666.

Ojo de Agua, Vera Cruz, 1600 ft., 2 ♂♂ 3 ♀♀ v.12.41.

Hoffmann *et al.* place this and the following species in *Hymentis*. A pair of *oto* is deposited at the Reading Public Museum.

154. *Greta nero* Hewitson.

G. & S., 1: 57; 2: 648.

Ha., p. 163, pl. 41e.

Ho., p. 666.

Fortin, Vera Cruz, 1600 ft., 1 ♂ v.3.41.

SATYRIDÆ

As is so frequent with collections made by inexperienced collectors in the tropics the catch of Satyridæ brought back by both Hoogstraal and Potts is small in comparison with what it might have been. The bulk of the specimens taken are *Euptychia*. Most of the jungle-loving species were not captured.

159. *Tisiphone maculata* Hopffer.

G. & S., 1: 72, 651.

W. (3), p. 184, pl. 44b.

Ho., p. 666.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 2 ♂♂  
1 ♀ v.28-29.41 (R.P.).

El Bañito, Valles, San Luis Potosi, 200 ft., 2 ♀♀ vi.26-  
28.40 (H.H.).

The El Sol female is fresh; all of the other specimens are worn.

163. *Taygetis virgilia* Cramer.

G. & S., 1: 97, 659.

W., p. 187, pl. 45a.

Ho., p. 666.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 2 ♂♂  
v.28-29.41 (R.P.).

167. *Taygetis inconspicua* Draudt.

Ho., p. 667.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 7 ♂♂  
iv.30, vi.28-29.41 (R.P.).

El Bañito, Valles, San Luis Potosi, 200 ft., 1 ♂ vi.28.40  
(H.H.).

El Pujal, San Luis Potosi, 100 ft., 2 ♂♂ vi.17-18.39  
(H.H.).

The El Bañito male and several of the May specimens from El Sol are worn; the others are reasonably fresh. I suspect that this is nothing more than a form of *virgilia*. The genus will be treated in monographic form as a member of my series of papers devoted to Ecuadorian butterflies.

172. *Neonympha gemma* Hübner.

G. & S., 1: 92, 657, pl. 8, f. 12.

W., p. 223 (as *cornelius* F.), pl. 49f.

Ho., p. 667.

Hda. Vista Hermosa, Villa Santiago, Nuevo Leon, 1500  
ft., 2 ♂♂ 1 ♀ vi.18-20.40 (H.H.).

60 mi. So. of Victoria, Tamaulipas, 2 ♂♂ vii.6.36  
(H.D.T.).

Jacala, Hidalgo, 4500 ft., 3 ♂♂ vi.24-29.39 (H.H.).

Fortin, Vera Cruz, 1600 ft., 1 ♂ v.4.41 (R.P.).

179. *Megisto hesione* Sulzer.

G. & S., 1: 75, 651 (as *ocirrhoe*).

W., p. 194, pl. 46d.

Ho., p. 667.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 7 ♂♂  
iv.30-31, v.28-29.41 (R.P.).

Ojo de Agua, Vera Cruz, 1600 ft., 2 ♀♀ v.12.41 (R.P.).

181. *Megisto mollina* Hewitson.

G. & S., 1: 76, 652, pl. 8, ff. 13, 14 (fig. as *westwoodi*).

W., p. 195, pl. 46e.

Ho., p. 668.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 5 ♂♂  
v.28-29.41 (R.P.).

Ojo de Agua, Vera Cruz, 1600 ft., 3 ♂♂ 3 ♀♀ v.12.41  
(R.P.).

The females and one male from Ojo de Agua are f. *westwoodi* Butler.

182. *Megisto fetna* Butler.

G. & S., 1: 77, 652, pl. 8, ff. 15, 16.

W., p. 195.

Ho., p. 668.

Chilpancingo, Guerrero, 1 ♂ vi.26.41 (R.P.).

184. *Megisto terrestris* Butler.

G. & S., 1: 79.

W., p. 200.

Ho., p. 668.

Hda. Vista Hermosa, Villa Santiago, Nuevo Leon, 1500  
ft., 1 ♂ vi.19.40 (H.H.).

This specimen is probably not true *terrestris* which hails from eastern South America but may be the same form regarded as *terrestris* by Hoffmann. It is far north of Hoffmann's record "Selva virgen de Campeche (Tierra caliente)." It compares well with Weymer's figure noted above.

188. *Megisto rubricata* Edwards.

G. & S., 1: 82, 655, pl. 8, f. 5.

W., p. 202.

Ho., p. 668.

Ojo de Agua, Sabinas Hidalgo, Nuevo Leon, 1000 ft.,  
1 ♂ vi.14.40 (H.H.).

Hda. Vista Hermosa, Villa Santiago, Nuevo Leon, 1600  
ft., 1 ♂ vi.19.40 (H.H.).

Jacala, Hidalgo, 4500-5100 ft., 3 ♂♂ 2 ♀♀ vi.24.39  
(H.H.).

190. *Megisto renata disaffecta* Butler.

G. & S., 1: 82, 655, pl. 8, f. 5 (as *renata*).

W., p. 204, pl. 47d.

Ho., p. 668.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 1 ♂ 1 ♀  
iv.30-31.41 (R.P.).

Fortin, Vera Cruz, 1600 ft., 1 ♂ v.3.41 (R.P.).

Tuxpango, Vera Cruz, 1500 ft., 1 ♂ v.9.41 (R.P.).

Ojo de Agua, Vera Cruz, 1600 ft., 3 ♂♂ v.12.41 (R.P.).

El Sabino, nr. Uruapan, Michoacan, 1 ♂ 1 ♀ vii.15-  
30.36 (H.D.T.).

Chichen Itza, Yucatan, 2 ♂♂ viii.30.36 (H.D.T.).

Determination tentative.

191. *Megisto hermes* Fabricius.

G. & S., 1: 86, 656, pl. 8, ff. 6, 7 (as *camerta*).

W., p. 207, pl. 48a.

Ho., p. 668.

Hda. Vista Hermosa, Villa Santiago, Nuevo Leon,  
1600 ft., 3 ♂♂ vi.17-18.40 (H.H.).

Monterrey, Nuevo Leon, 1800 ft., 2 ♂♂ 1 ♀ iv.27.41  
(R.P.).

nr. Villagran, Tamaulipas, 1160 ft., 1 ♂ iv.28.41 (R.P.).

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 2 ♂♂  
2 ♀♀ v.28-29.41 (R.P.).

El Bañito, Valles, San Luis Potosi, 200 ft., 3 ♂♂  
vi.27.41 (H.H.); 1 ♂ iv.30.41 (R.P.).

El Pujal, San Luis Potosi, 100 ft., 2 ♂♂ 5 ♀♀ vii.17-  
21.39 (H.H.).

Hda. Potrero Viejo, Vera Cruz, 1500 ft., 1 ♀ v.5.41  
(R.P.).

Tuxpango, Vera Cruz, 1500 ft., 1 ♀ v.9.41 (R.P.).

Fortin, Vera Cruz, 1600 ft., 2 ♀♀ v.4.41 (R.P.).

Ojo de Agua, Vera Cruz, 2000 ft., 2 ♂♂ 1 ♀ v.12.41  
(R.P.).

Orizaba, Vera Cruz, 2000 ft., 4 ♂♂ 2 ♀♀ v.6.41 (R.P.).

60 mi. So. of Victoria, Tamaulipas, 1 ♂ 1 ♀ vii.6.36  
(H.D.T.).

El Sabino, nr. Uruapan, Michoacan, 5 ♂♂ 4 ♀♀ vii.15-30.36 (H.D.T.).

Chichen Itza, Yucatan, 2 ♀♀ viii.30.36 (H.D.T.).

An extremely varied series. The species "*hermes*" may be composite.

197. *Megisto libye* Linnæus.

G. & S., 1: 83, 655.

W., p. 212, pl. 48e.

Ho., p. 669.

Ojo de Agua, Vera Cruz, 1600 ft., 1 ♀ v.12.41 (R.P.).

198. *Megisto glaucina* Bates.

G. & S., 1: 90, pl. 8, ff. 18, 19.

W., p. 216, pl. 49b.

Ho., p. 669.

Ojo de Agua, Vera Cruz, 1600 ft., 1 ♂ 1 ♀ v.12.41 (R.P.).

*Megisto* sp.

Fortin, Vera Cruz, 1600 ft., 1 ♂ v.4.41 (R.P.).

Ojo de Agua, Vera Cruz, 2000 ft., 1 ♂ v.6.41 (R.P.).

A species near *nebulosa* Butler. Differing from that South American species in having five ocelli on the under side of the fore wing.

200. *Pindis squamistriga* Felder.

G. & S., 1: 80, 654, pl. 8, f. 24 (fig. as *zabdi*).

W., p. 224, pl. 50a.

Ho., p. 669.

Jacala, Hidalgo, 4500 ft., 2 ♂♂ vi.23-29.39 (H.H.).

El Sabino, nr. Uruapan, Michoacan, 1 ♂ vii.15-30.36 (H.D.T.).

Sta. Lucretia, 2 ♂♂ ix.4.39 (H.D.T.).

The two Jacala specimens are badly battered; fortunately one entire fore wing is intact on one specimen, sufficient to recognize the genus and species. This is the first record of the species from so far northeast in Mexico.



202. *Paramecera xicaque* Reakirt.

G. &amp; S., 1: 101, 660.

W., p. 225, pl. 50a.

Ho., p. 669.

Tancitaro, Michoacan, 6600 ft., 1 ♂ vii.25.40 (H.H.).

A battered specimen.

## BRASSOLIDÆ

216. *Opsiphanes cassina fabricii* Boisduval.G. & S., 1: 127, 664 (as *cassiae*).

F. (4), p. 302, pl. 51d.

Ho., p. 671.

El Bañito, Valles, San Luis Potosi, 200 ft., 3 ♂♂ 1 ♀  
vi.28.40 (H.H.).

Hoffmann reports this species from both coasts as far north as Sinaloa and Tamaulipas in contrast to Fruhstorfer's report of it only as far north as Tepic, Nayarit on the west coast and no mention of it in eastern Mexico.

218. *Eryphanis æsacus æsacus* Herrick-Schaffer.

G. &amp; S., 1: 137, 666.

F., p. 313, pl. 64b.

Ho., p. 671.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 2 ♂♂  
1 ♀ v.28-29.41 (R.P.).El Bañito, Valles, San Luis Potosi, 200 ft., 1 ♂ v.28.40  
(H.H.).El Pujal, San Luis Potosi, 100 ft., 2 ♂♂ vi.18.39  
(H.H.).

These records extend the range of the species a little further north than that given by Hoffmann. Fruhstorfer says of the species, "Everywhere rare."

## MORPHIDÆ

225. *Morpho peleides montezuma* GueneeG. & S., 1: 119, 663 (as *peleides*).

F., p. 344.

Ho., p. 672.

El Sol, Tamazunchale, San Luis Potosi, 400 ft., 5 ♂♂  
v.29.41 (R.P.).

El Bañito, Valles, San Luis Potosi, 200 ft., 2 ♂♂  
vii.22.39, vi.26.40 (H.H.).

Ojo de Agua, Vera Cruz, 1600 ft., 3 ♂♂ 1 ♀ v.12.41  
(R.P.).

The Ojo de Agua material is in very poor condition, especially the female. The other specimens are in good condition. The records for San Luis Potosi extend the range of the species a little to the north.

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